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Resource ID#: 53457

Primary Type: Virtual Manipulative

Direct Link: http://www.wiley.com/college/boyer/0470003790/animations/catalysis_energy/catalysis_energy.htm

Catalysis

This interactive animation presented here helps in understanding the concept of catalysis, which is defined as the process of accelerating the process of chemical reaction with the use of a catalyst. This visual conceptualization will provide the students with the opportunity to test their knowledge and understanding about the concepts.

General Information

Subject(s): Science
Grade Level(s): 8, 9
Intended Audience: Educators , Students , Parents

Suggested Technology: Adobe Flash Player

Freely Available: Yes

Keywords: Catalysis, Enzymes.

Instructional Component Type(s): **Virtual Manipulative,** Video/Audio/Animation

Resource Collection: Games and Simulations

Source and Access Information

Contributed by:
Name of Author/Source: Wiley.com
Is this Resource freely Available? Yes
Access Privileges: Public
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Aligned Standards

Name	Description
SC.912.P.12.12:	Explain how various factors, such as concentration, temperature, and presence of a catalyst affect the rate of a chemical reaction. **Clarifications:** Various factors could include: temperature, pressure, solvent and/or solute concentration, sterics, surface area, and catalysts. The rate of reaction is determined by the activation energy, and the pathway of the reaction can be shorter in the presence of enzymes or catalysts. Examples may include: decomposition of hydrogen peroxide using manganese (IV) oxide; nitration of benzene using concentrated sulfuric acid; hydrogenation of a C=C double bond using nickel.